Claims

1.

A closure and container package that includes:

a container having a finish with a mouth opening through which product is both filled into and dispensed from said container, and

a closure including:

a base mounted on said finish and having an opening aligned with said mouth opening of said container finish, and

a lid connected to said base by an integrally molded hinge to pivot between an open position in which said lid is spaced from said opening in said base and a closed position in which said lid is adjacent to said base,

said lid including means for engaging ~~said mouth opening or~~ said opening in said base to close said opening in said base in said closed position of said lid.

2.

The package set forth in claim 1 wherein said means for engaging ~~said mouth~~ opening or said opening in said base includes a fitment removably mounted on said lid and having a dispensing opening, and means on said fitment and on ~~said finish or~~ said closure base for securing said fitment to ~~said finish or~~ said base, first movement of said lid from said open to said closed position, after filling of said container through said mouth and base openings, securing said fitment to ~~said finish or~~ said base, such that movement of said lid to said open position after said first movement permits dispensing of product from said package through said dispensing opening in said fitment.

3.

The package set forth in claim 2 wherein said fitment includes an elastomeric dispensing valve in which said dispensing opening is disposed.

4.

The package set forth in claim 2 wherein said fitment has an annular wall with a circumferential bead to engage said mouth opening or said opening in said base to secure said fitment to said finish or said base.

5.

The package set forth in claim 4 wherein said finish includes a circumferential bead over which said bead on said fitment wall is received during said first movement of said lid to said closed position.

6.

The package set forth in claim 4 wherein said closure base has an annular wall over which said bead on said fitment wall is received during said first movement of said lid to said closed position.

7.

The package set forth in claim 6 wherein said annular wall on said closure base is in plug sealing engagement with said mouth opening.

8.

The package set forth in claim 2 wherein said fitment has an open dispensing opening, and wherein said lid has a spud on which said dispensing opening on said fitment is removably mounted, said spud being adapted to plug seal said dispensing opening after said first movement of said lid.

9.

The package set forth in claim 2 wherein said lid has an annular wall and said fitment has an annular wall initially coupled to said annular wall on said lid, first movement of said lid to said closed position securing said fitment to said closure base on said container finish, subsequent opening of said lid releasing coupling between said lid and said fitment.

10.

The package set forth in claim 1 wherein said lid includes means for permanent securement to said base over said opening in said base upon said first movement to said closed position, said container finish and said closure base including means for removing said closure from said finish to permit dispensing of product through said mouth opening.

11.

A closure and container package that includes:

a container having a finish with a mouth opening through which product is both filled into and dispensed from said container, and

a closure including:

a base mounted on said finish and having an opening aligned with said mouth opening of said container finish,

a lid coupled to said base by an integrally molded hinge to pivot between an open position in which said lid is spaced from said base and a closed position in which said lid is adjacent to said base, and

a fitment removably carried by said lid and having a dispensing opening, said fitment including a snap bead for engaging said finish or said closure base to secure said fitment to said one of said finish and said base,

such that said package is adapted to be filled with product through said closure base opening and said mouth opening with said lid in said open position and said fitment carried by said lid, and said lid thereafter moved to said closed position to secure said bead on said fitment to said container finish or said closure base, and to position said dispensing opening in alignment with said mouth opening, movement of said lid to said open position thereafter permitting dispensing of product through said dispensing opening of said fitment.

12.

The package set forth in claim 11 wherein said dispensing opening on said fitment is open, and wherein said lid includes a spud on which said fitment is initially removably carried, said spud functioning as a plug seal in said dispensing opening in said closed position of said lid after securement of said fitment to said one of said container finish and said closure base.

13.

The package set forth in claim 11 wherein said fitment includes an elastomeric dispensing valve in which said dispensing opening is disposed.

14.

The package set forth in claim 11 wherein said fitment has an annular wall on which said snap bead is disposed to engage said one of said finish and said base.

15.

The package set forth in claim 14 wherein said finish includes a circumferential bead over which said bead on said fitment wall is received during said first movement of said lid to said closed position.

16.

The package set forth in claim 14 wherein said closure base has an annular wall over which said bead on said fitment wall is received during said first movement of said lid to said closed position.

17.

The package set forth in claim 16 wherein said annular wall on said closure base is in plug sealing engagement with said mouth opening.

18.

A closure and container package that includes:

a container having a finish with a mouth opening through which product is both filled into and dispensed from said container, and

a closure including:

a closure base mounted on said finish and having an opening in alignment with said mouth opening of said container finish,

a lid coupled to said base by an integrally molded hinge to pivot between an open position in which said lid is spaced from said base and a closed position in which said lid is adjacent to said base, said lid having a spud for alignment with said opening in said base in said closed position of said lid, and

a fitment having a dispensing opening removably received over said spud and an annular peripheral wall including a snap bead for engaging one of said container finish and said closure base to secure said fitment to said one of said container finish and said closure base after filling of the container through said opening in said closure base and said mouth opening.

19.

The package set forth in claim 18 wherein said finish includes a circumferential bead over which said bead on said fitment wall is adapted to be received.

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The package set forth in claim 18 wherein said closure base has an annular wall over which said bead on said fitment wall is adapted to be received.

21.

The package set forth in claim 20 wherein said annular wall on said closure base is in plug sealing engagement with said mouth opening.

22.

A closure and container package that includes:

a container having a finish with a mouth opening through which product is both filled into and dispensed from said container, and

a closure including:

a closure base mounted on said finish and having an opening in alignment with said mouth opening of said container finish,

a lid coupled to said base by an integrally molded hinge to pivot between an open position in which said lid is spaced from said base and a closed position in which said lid is adjacent to said base, said lid having an annular wall aligned with said opening on said base wall when said lid is in said closed position, and

a fitment having an elastomeric dispensing valve, a first annular wall removably coupled to said annular wall on said lid, and a second annular wall including a snap bead for engaging one of said container finish and said closure base to secure said fitment and said dispensing valve to said one of said container finish and said closure base after filling of said container through said opening in said closure base and said mouth opening.

23.

The package set forth in claim 22 wherein said finish includes a circumferential bead over which said bead on said fitment wall is adapted to be received.

24.

The package set forth in claim 22 wherein said closure base has an annular wall over which said bead on said fitment wall is adapted to be received.

25.

The package set forth in claim 24 wherein said annular wall on said closure base is in plug sealing engagement with said mouth opening.

26. won't deleted

A closure and container package that includes:

a container having a finish with a mouth opening through which product is both filled into and dispensed from said container, and

a closure including:

a closure base mounted on said finish and having an opening in alignment with said mouth opening of said container finish,

a lid coupled to said base by an integrally molded hinge to pivot between an open position in which said lid is spaced from said base and a closed position in which said lid overlies said opening in said base,

said lid including means for permanently securing said lid to said base overlying and closing said opening in said base after filling said container with product through said

opening in said base, said closure being removable from said finish to dispense product through said mouth opening.

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27.

The package set forth in claim 26 wherein said means for permanently securing said lid comprises an annular wall on said lid for receipt through said opening in said base and a snap bead on said annular wall.

28.

A dispensing closure for mounting on a container having a finish with an open mouth, said closure including:

a base for mounting on the container finish and having an opening for alignment with the mouth opening of the container finish,

a lid coupled to said base by an integrally molded hinge to pivot between an open position in which said lid is spaced from said base and a closed position in which said lid is adjacent to said base, and

a fitment (14) removably carried by said lid and having a dispensing opening, said fitment including a snap (28) bead for engaging ~~the container finish~~ or said closure base to secure said fitment to said one of the finish and said base.

29.

The closure set forth in claim 28 wherein said dispensing opening on said fitment is open, and wherein said lid includes a spud on which said fitment is initially removably carried, said spud functioning as a plug seal in said dispensing opening in said closed position of said lid after securement of said fitment to the container finish or said closure base.

30.

The closure set forth in claim 28 wherein said fitment includes an elastomeric dispensing valve in which said dispensing opening is disposed.

31.

The closure set forth in claim 28 wherein said fitment has an annular wall on which said snap bead is disposed to engage the container finish or said closure base.

32.

The closure set forth in claim 31 wherein said bead on said fitment wall is adapted to be received over a circumferential bead on the container finish.

33.

The package set forth in claim 31 wherein said closure base has an annular wall over which said bead on said fitment wall is adapted to be received.

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34.

The package set forth in claim 33 wherein said annular wall on said closure base is adapted to be in plug sealing engagement with the mouth opening of the container finish.

35.

A closure for mounting on a container having a finish with an open mouth, said closure including:

a closure base adapted to be mounted on the container finish and having an opening for alignment with the mouth opening of the container finish,

a lid coupled to said base by an integrally molded hinge to pivot between an open position in which said lid is spaced from said base and a closed position in which said lid overlies said opening in said base,

said lid including means for permanently securing said lid to said base overlying and closing said opening in said base after filling of the container with product through said opening in said base, said closure being adapted to be removable from the container finish to dispense product through the mouth opening of the container finish.

36.

The closure set forth in claim 35 wherein said means for permanently securing said lid comprises an annular wall on said lid for receipt through said opening in said base and a snap bead on said annular wall.

37.

A method of making a dispensing closure that comprises the steps of:

(a) integrally molding a closure base with means for mounting on a container finish, a lid and a hinge pivotally coupling said lid to said base, and

(b) removably mounting a fitment on said lid, said fitment having a dispensing opening and an annular peripheral wall with a snap bead.

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38.

A method of packaging a product within a container that comprises the steps of:

(a) providing a container having a finish with a mouth opening,

(b) mounting on said finish a dispensing closure having a base with an opening aligned with said mouth opening, a lid coupled to said base by an integrally molded hinge, and a fitment removably carried by said lid,

(c) with said lid open, filling said container with product through said opening in said closure base and said mouth opening, and then

(d) closing said lid over said opening in said base such that said fitment becomes secured to one of said closure base and said finish, said lid thereafter being openable to dispense product through said dispensing opening.